SPYWOLF

Security Audit Report

Completed on
July 28, 2022

OVERVIEW

This audit has been prepared for **Green Chart** to review the main aspects of the project to help investors make make an informative decision during their research process.

You will find a a summarized review of the following key points:

- ✔ Contract's source code
- ✔ Owners' wallets
- ✔ Tokenomics
- ✔ Team transparency and goals
- ✔ Website's age, code, security and UX
- ✔ Whitepaper and roadmap
- ✔ Social media & online presence

"

The results of this audit are purely based on the team's evaluation and does not guarantee nor reflect the projects outcome and goal

– SPYWOLF Team –

"

TABLE OF CONTENTS

Green Chart

GREEN CHART

PROJECT DESCRIPTION

According to their whitepaper:

Green Chart have set goals for staking platform, cross network bridges and mobile wallet app. The current completed goal from their roadmap is staking platform, where holders can stake $GREEN tokens and receive compounded rewards.

Release Date: Launched at March 10, 2022
Category: Staking

01

CONTRACT INFO

Token Name
Green Chart

Symbol
GREEN

Contract Address
0x7403802c0FFeE2d83FB13513e23aAF4a3a9C69f0

Network
Binance Smart Chain

Language
Solidity

Deployment Date
February 24, 2022

Verified?
Yes

Total Supply
100,000,000,000

Status
Launched

TAXES

Buy Tax
5%

Sell Tax
20%

*Taxes can be changed in future

Our Contract Review Process

The contract review process pays special attention to the following:

- ✓ Testing the smart contracts against both common and uncommon vulnerabilities
- ✓ Assessing the codebase to ensure compliance with current best practices and industry standards.
- ✓ Ensuring contract logic meets the specifications and intentions of the client.
- ✓ Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- ✓ Thorough line-by-line manual review of the entire codebase by industry experts.

Blockchain security tools used:

- OpenZeppelin
- Mythril
- Solidity Compiler
- Hardhat

02

CURRENT STATS

(As of July 28, 2022)

Liquidity

PancakeSwap:
171 WBNB

Burn

17.1% of total supply

Status:
Launched!

MaxSellTxAmount
500,000,000

DEX:
PancakeSwap

LP Address(es)

Pancakeswap:
0x05D05E8666608b8BF65b1Ac0F544ba40831CE58b

99.9% locked - unlocks at March 11, 2023

03

TOKEN TRANSFERS STATS

Transfer Count	19113
Uniq Senders	1875
Uniq Receivers	7443
Total Amount	606016157429.9401 GREEN
Median Transfer Amount	1363379.2759999998 GREEN
Average Transfer Amount	31707013.939723752 GREEN
First transfer date	2022-02-24
Last transfer date	2022-07-28
Days token transferred	148

SMART CONTRACT STATS

|	
Calls Count	229
External calls	37
Internal calls	192
Transactions count	143
Uniq Callers	32
Days contract called	8
Last transaction time	2022-07-28 08:41:12 UTC
Created	2022-07-21 02:21:37 UTC
Create TX	0xbb07958a2fd6dbc16ec962dee1881e59d7d91dea3d8118a6befc85ab9fb8bc3a
Creator	0xa27fd1d1501a3dd13c0d4b112c0b78ba5ba65615

FEATURED WALLETS

| Owner address	0xD64e15d17b7e667Fa62371c42727809FE97fEAbA
Buyback address	0xfd1c44dc0195fe13f6dc07014ec523c497ce55cb
Marketing address	0x551db7e224e34609df48f2414ddf2118a9efaa3e
Team address	0x4e8fc9e69800b22a0c223d86bc3aab73330ca589
LP address	**Pancakeswap:** 0x05D05E8666608b8BF65b1Ac0F544ba40831CE58b 99.9% locked - unlocks at March 11, 2023

TOP 3 UNLOCKED WALLETS
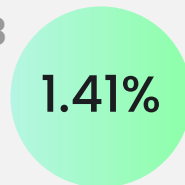
1
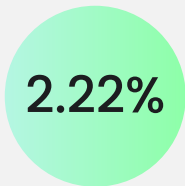
2.22%   Same as owner
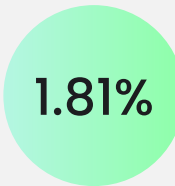
0x78dd038e768cfe9ff914b5b2cdb01542339253c5   **1.81%** 2

3 **1.41%**   0x732546b68cd778c30d6a9ba3ce6d33f979e8e73f

05

VULNERABILITY CHECK

Design Logic	Passed
Compiler warnings.	Passed
Private user data leaks	Passed
Timestamp dependence	Passed
Integer overflow and underflow	Passed
Race conditions and reentrancy. Cross-function race conditions	Passed
Possible delays in data delivery	Passed
Oracle calls	Passed
Front running	Passed
DoS with Revert	Passed
DoS with block gas limit	Passed
Methods execution permissions	Passed
Economy model	Passed
Impact of the exchange rate on the logic	Passed
Malicious Event log	Passed
Scoping and declarations	Passed
Uninitialized storage pointers	Passed
Arithmetic accuracy	Passed
Cross-function race conditions	Passed
Safe Zeppelin module	Passed
Fallback function security	Passed

THREAT LEVELS

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and access control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time. We categorize these vulnerabilities by the following levels:

High Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Medium Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Low Risk

Issues on this level are minor details and warning that can remain unfixed.

Informational

Information level is to offer suggestions for improvement of efficacy or security for features with a risk free factor.

07

FOUND THREATS

⚠️ High Risk

Owner can disable trading, making it impossible to sell.

```
function switchMarketActive(bool _state) external onlyOwner {
        marketActive = _state;
        if(_state) {
            marketActiveAt = block.timestamp;
        }
}
```

Owner can set buy/sell fees up to 100%.

```
function setFee(bool is_buy, uint marketing, uint team, uint buyback) public onlyOwner {
    if(is_buy) {
        buyTeamFee = team;
        buyMarketingFee = marketing;
        buyBuybackFee = buyback;
        totalBuyFee = buyMarketingFee + buyTeamFee + buyBuybackFee;
    } else {
        sellTeamFee = team;
        sellMarketingFee = marketing;
        sellBuybackFee = buyback;
        totalSellFee = sellMarketingFee + sellTeamFee + sellBuybackFee;
    }
}
```

08-A

ℹ️ Informational

Owner can set max transaction limit, but can't lower it than 0.1% of total supply.

```solidity
function setMaxSellTxAmount(uint _value) external onlyOwner {
    require(_value >= ( total_supply * 1 /1000) /(10**decimals()), "MaxSell Tx too low");
    maxSellTxAmount = _value*10**decimals();
}
function setMaxBuyTxAmount(uint _value) external onlyOwner {
    require(_value >= ( total_supply * 1 /1000) /(10**decimals()), "MaxBuy Tx too low");
    maxBuyTxAmount = _value*10**decimals();
}
```

Owner can withdraw any tokens from contract.

```solidity
function transferForeignToken(address _token, address _to, uint _value)
external onlyOwner returns(bool _sent){
    if(_value == 0) {
        _value = IERC20(_token).balanceOf(address(this));
    }
    _sent = IERC20(_token).transfer(_to, _value);
}

function sweep() external onlyOwner {
    uint balance = address(this).balance;
    payable(owner()).transfer(balance);
}
```

Owner can exclude address from fees and disable trading restrictions.

```solidity
function editPremarketUser(address _target, bool _status) external onlyOwner {
    premarketUser[_target] = _status;
}

function editExcludedFromFees(address _target, bool _status) external onlyOwner {
    excludedFromFees[_target] = _status;
}
```

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RECOMMENDATIONS FOR

GOOD PRACTICES

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1 Consider fundamental tradeoffs

2 Be attentive to blockchain properties

3 Ensure careful rollouts

4 Keep contracts simple

5 Stay up to date and track development

Green Chart
GOOD PRACTICES FOUND

✔ The owner cannot mint new tokens after deployment

✔ The owner can set a transaction limit, but can't lower it than 0.1% of total supply

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Current state:

- 30.9% - Staking contract
- 21.6 - Liquidity pair
- 17.1 - Burnt
- 7.34% - Top 5 holders
- 23.06% - Rest of the holders

Tokens distribution

Rest of the holders
23,0%

Staking contract
30,9%

Top 5 holders
7,3%

Liquidity pair
21,6%

Burnt
17,1%
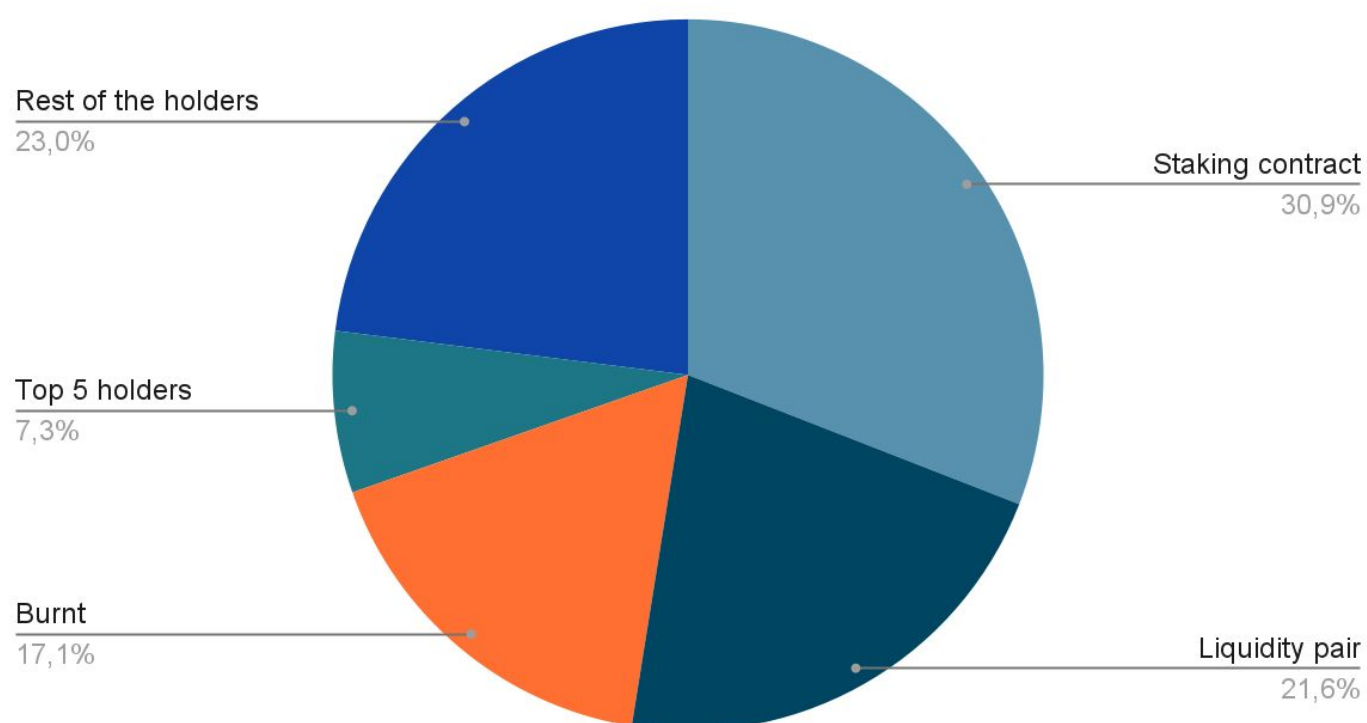
THE TEAM

The team has privately doxxed to SPYWOLF by completing the following KYC requirements:

- ID Verification
- Video statement
- Video interview with devs
- Owner's wallet verification

KYC INFORMATION

Issuer

SPYWOLF

Members KYC'd
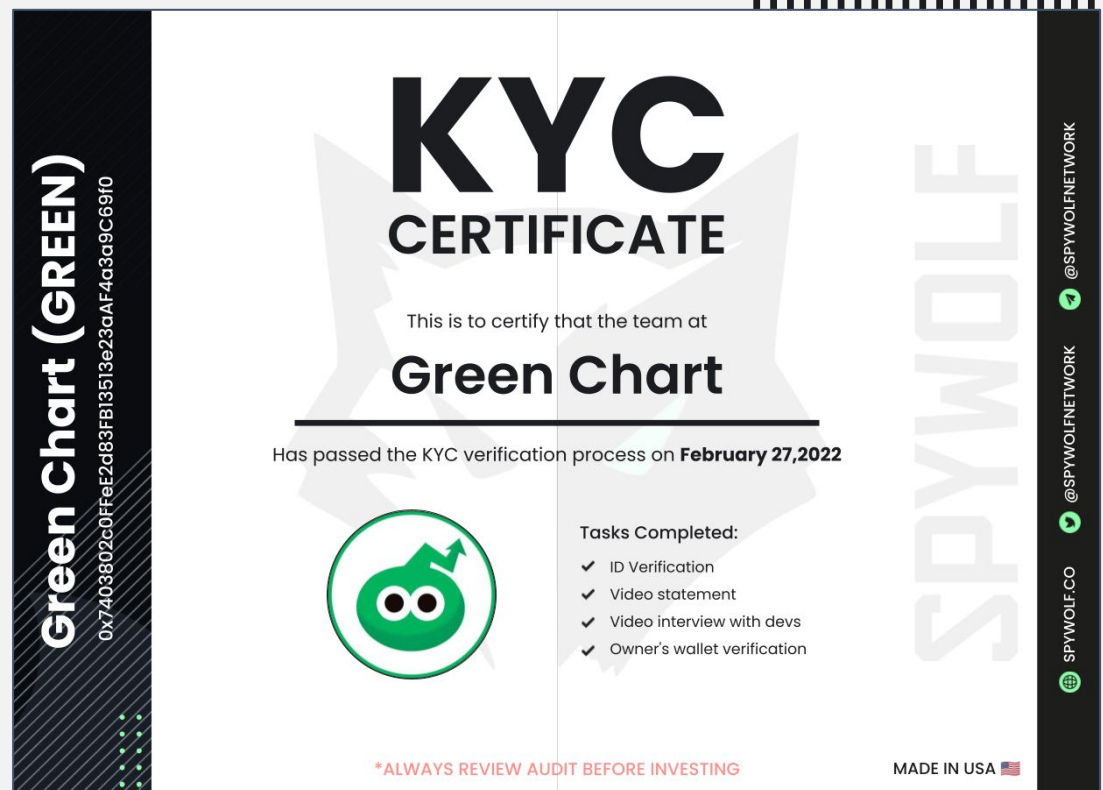
👤 👤

KYC Date

February 27, 2022

Format

Image

Certificate Link

https://github.com/SpyWolfNetwork/KYCs/blob/main/february/KYC _GreenChart_0x7403802c0FFeE2d83FB13513e23aAF4a3a9C69f0.png

KYC CERTIFICATE

Green Chart (GREEN)
0x7403802c0FFeE2d83FB13513e23aAF4a3a9C69f0

This is to certify that the team at

Green Chart

Has passed the KYC verification process on **February 27, 2022**

Tasks Completed:
- ✔ ID Verification
- ✔ Video statement
- ✔ Video interview with devs
- ✔ Owner's wallet verification

*ALWAYS REVIEW AUDIT BEFORE INVESTING

MADE IN USA 🇺🇸

@SPYWOLFNETWORK
@SPYWOLFNETWORK
SPYWOLF.CO

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Website URL
https://www.green-chart.com/

Domain Registry
http://www.wix.com

Domain Expiration
Expires on 2023-02-27

Technical SEO Test
Passed

Security Test
Passed. SSL certificate present

Design
Appropriate color scheme and graphics.

Content
The information helps new investors understand what the product does right away. No grammar mistakes found.
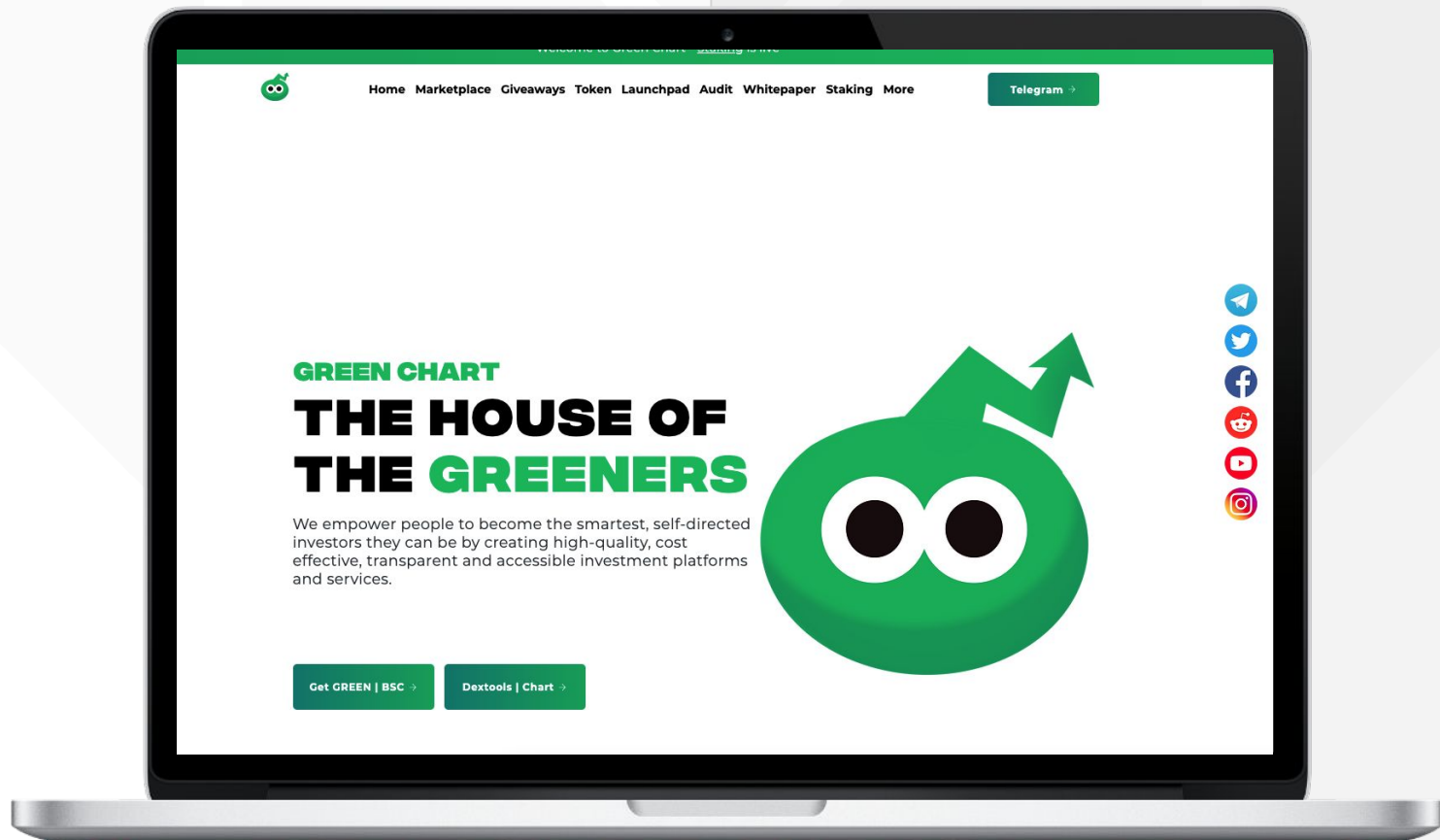
Whitepaper
Well written, explanatory.

Roadmap
Yes, goals set without time frames.

Mobile-friendly?
Yes

green-chart.com

SOCIAL MEDIA

& ONLINE PRESENCE

ANALYSIS
Project's social media pages are active with organic activity

Twitter

@GreenChartBSC

- 6 677 followers
- Active
- Posts frequently

Telegram

@greenchartbsc

- 9 568 members
- Active members
- Active mods

Discord

- Not available

Medium

- Not available

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SPYWOLF

CRYPTO SECURITY

Audits | KYCs | dApps
Contract Development

ABOUT US

We are a growing crypto security agency offering audits, KYCs and consulting services for some of the top names in the crypto industry.

- ✔ **OVER 150 SUCCESSFUL CLIENTS**

- ✔ **MORE THAN 500 SCAMS EXPOSED**

- ✔ **MILLIONS SAVED IN POTENTIAL FRAUD**

- ✔ **PARTNERSHIPS WITH TOP LAUNCHPADS, INFLUENCERS AND CRYPTO PROJECTS**

- ✔ **CONSTANTLY BUILDING TOOLS TO HELP INVESTORS DO BETTER RESEARCH**

To hire us, reach out to contact@spywolf.co or t.me/joe_SpyWolf

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Disclaimer

This report shows findings based on our limited project analysis, following good industry practice from the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, overall social media and website presence and team transparency details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report.

While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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No applications were reviewed for security. No product code has been reviewed.